

Magnetic Thin Film Media with a Pre-seed Layer of CrTiAl

Related Applications

- 5 Co-pending, commonly assigned U.S. patent application bearing serial number 09/500,710^{now US 6,586,116} describes the use of an amorphous or nanocrystalline CrTa or AlTi as a pre-seed layer. Co-pending, commonly assigned U.S. patent applications bearing serial numbers 09/798,235^{now US 6,593,009 pending} and 10/059,780 describe the use of amorphous or nanocrystalline CrTi as a pre-seed layer.

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Field of the Invention

The invention relates to magnetic thin film media and methods for their fabrication and more particularly to magnetic thin film disks having a pre-seed
15 layer and a seed layer prior to an underlayer.

Background of the Invention

A typical prior art head and disk system 10 is illustrated in figure 1. In
20 operation the magnetic transducer 20 is supported by the suspension 13 as it flies above the disk 16. The magnetic transducer 20, usually called a "head" or "slider," is composed of elements that perform the task of writing magnetic transitions (the write head 23) and reading the magnetic transitions (the read head 12). The electrical signals to and from the read and write heads 12, 23
25 travel along conductive paths (leads) 14 which are attached to or embedded in the suspension 13. The magnetic transducer 20 is positioned over points at varying radial distances from the center of the disk 16 to read and write circular tracks (not shown). The disk 16 is attached to a spindle 18 that is driven by a spindle motor 24 to rotate the disk 16. The disk 16 comprises a substrate 26 on
30 which a plurality of thin films 21 are deposited. The thin films 21 include